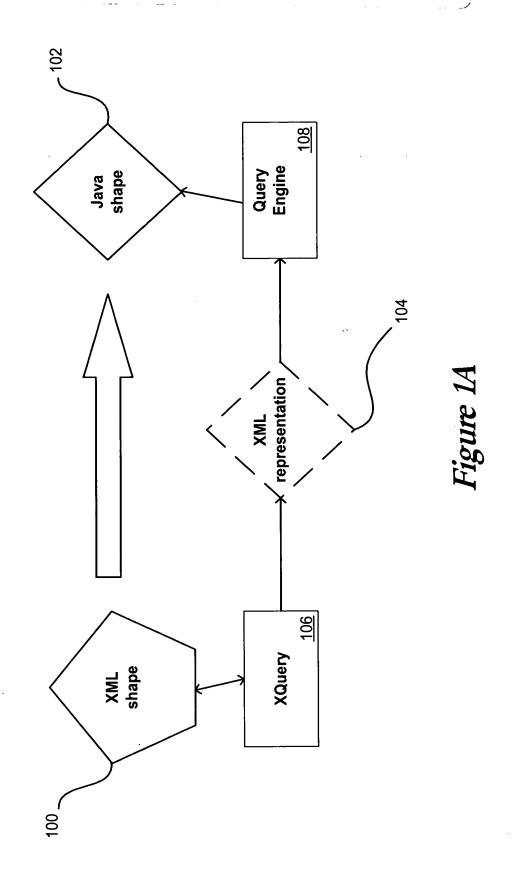
Title: Systems and Methods for Declaratively Transforming Data Objects Between Disparate Representations

Docket No.: BEAS-01391US1 Appl. No.: To be Assigned

Confirm No.: To be assigned Filed: Herewith

Inventor(s): Sandararajan et al. Attorney: Joseph P. O'Malley Phone: (415) 362-3800 Express Mail No: EV 442643625 US

Sheet 1 of 3



Disparate Representations
Docket No.: BEAS-01391US1
Appl. No.: To be Assigned
Confirm No.: To be assigned Inventor(s): Sandararajan et al. Attorney: Joseph P. O'Malley Phone: (415) 362-3800 Express Mail No: EV 442643625 US Sheet 2 of 3 Filed: Herewith XQuery XML Query Engine XML shape XML representation Java shape

Title: Systems and Methods for Declaratively Transforming Data Objects Between

```
Express Mail No: EV 442643625 US
// XML to Java XQuery transformation
public class customer {
       int id;
       String name;
       String address;
}
* @wlw:transform xquery::
* < Customer >
* <name>{$po/customer/name}</name>
* <id>{$po/customer/id}</id>
* <address>{$po/customer/address}</address>
* </Customer>
*/
Customer getCustomer(XML po);
// Java to XML transformation
public class PurchaseOrder {
       int id;
       int quantity;
       string street;
       string city;
       string zip;
}
* @wlw:transform xquery::
* <po>
* <id>{$po/id}</id>
* <qty>{$po/quantity}</qty>
* <address>{
     formatAddress($po/street, $po/city, $po/zip)
* }</address>
* </po>
* ::
*/
XML poTransform(PurchaseOrder po);
```

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Attorney: Joseph P. O'Malley

Phone: (415) 362-3800

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Figure 2